

First FINAL EXAM JUNE 2020

PHYSICAL MEDICINE AND REHABILITATION PAPER-I

Time: 3 hours PMR/J/20/35/I

Max. Marks:100

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

1.	What are the objectives and principles of therapeutic exercises? Mention the differences between isometric, isotonic and eccentric types of muscular contractions.	5+5
2.	Describe neuroanatomy of bladder. What is detrusor sphincter dyssynergia? Briefly mention its management.	5+1+4
3.	a) Brain stem Auditory Evoked Response (BAER) test.b) Motor unit action potential.	5+5
4.	What is scapulohumeral complex? Describe the mechanics of muscles participating in each movement at the scapulohumeral complex.	5+5
5.	What types of controls are available for manipulation of motorized wheelchair, give indications of each type of control?	10
6.	Physiology and assessment of balance in human.	5+5
7.	a) Describe oxygen dissociation curve with the help of a neat and labelled diagram.b) Describe the factors affecting oxygen dissociation curve.	5+5
8.	a) Describe the nerve supply of foot with a labelled diagram.b) How can you differentiate between radiculopathy and peripheral neuropathy in a patient with sensory deficit of foot region?c) Describe muscles of second layer of sole.	4+3+3
9.	Describe speech areas of brain. Enumerate various types of presentations of speech disorders due to brain injury based on these areas.	5+5
10.	Describe the Gate control theory of pain and its applied perspectives in management of pain.	10
